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(54) Title: **PROCESS FOR CONTROLLING THE DENSITY, CONFORMATION AND COMPOSITION OF THE HYDROPHILIC LAYER OF A POLYURETHANE COMPOSITE**

(57) **Abstract:** A process of making a foam composite of desired pore size and conformation is provided. An emulsion of a hydrophilic polyurethane prepolymer which upon curing forms a substantially open cell hydrophilic polyurethane polymer foam is prepared and contacted with an open cell hydrophobic polyurethane foam having a plurality of surfaces defining a plurality of pores. The hydrophilic polyurethane prepolymer emulsion is then cured while by contacting with a gas at elevated temperature for a period of time sufficient to form a coating of substantially open cell hydrophilic polyurethane polymer foam on the hydrophobic polyurethane foam.